

DERBYSHIRE EDUCATION COMMITTEE.

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REPORT

OF THE

SCHOOL MEDICAL OFFICER

ON THE

Medical Inspection of School Children

FOR THE


Year ended 31st December, 1916.

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DERBY.

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## MEDICAL STAFF.

### SCHOOL MEDICAL OFFICER.

Sidney Barwise, M.D., D.P.H., B.Sc.

### CHIEF ASSISTANT MEDICAL OFFICER.

\*W. D. Carruthers, M.B., D.P.H.

### OPHTHALMIC SURGEONS.

\*T. E. Ashdown Carr, M.B., B.S.

†W. Gunning, L.R.C.P. & S.

### EAR AND THROAT SPECIALIST.

\*J. Birch Martin, M.R.C.S., B.S. (resigned).

### ASSISTANT MEDICAL OFFICERS.

\*W. H. DuPre, M.R.C.S.

†Mary L. David, M.A., M.B., Ch. B. (resigned).

†Adeline Campbell, M.B., Ch., B. (resigned).

†John C. Bedwell, L.R.C.P., L.R.C.S., B. Sc. (Lond.)

†Daniel Hennesy, M.D., M.Ch.

†Jos. Ward, M.D. (resigned).

### PART-TIME ASSISTANT MEDICAL OFFICERS.

C. W. Evans, M.B.    ..    ..    Bakewell Urban.

T. Fentem, M.D., B.Sc.    ..    ..    Bakewell Rural, North and South  
Darley, Matlock, Matlock Bath,  
Baslow Urban.

T. B. Flint, M.R.C.S.    ..    ..    Buxton Urban

W. T. Hannah, M.D., D.P.H.    ..    Chapel-en-le-Frith, Rural, Hayfield  
Rural, and Fairfield Urban.

\*A. G. Harvey, M.D.    ..    ..    Bonsall.

G. H. Herbert, M.R.C.S.    ..    ..    Sudbury Rural.

H. H. Hollick, M.R.C.S.    ..    ..    Ashbourne Rural.

O. H. Hudson, M.R.C.S.    ..    ..    Dronfield Urban.

S. Hunt, M.R.C.S.    ..    ..    Shardlow Rural.

J. O. Littlewood, M.R.C.S., D.P.H.    Blackwell Rural.

R. W. Logan, M.R.C.S.    ..    ..    Swadlincote, Hartshorne & Seals  
Rural.

D. J. Mackenzie, M.D.    ..    ..    Glossop Rural.

R. A. McCrea, M.B.    ..    ..    Brampton & Walton Urban.

G. Milligan, M.D., D.P.H.    ..    Long Eaton Urban.

P. D. Minchin, L.R.C.P.    ..    ..    Repton Rural.

G. B. Pemberton, M.B.    ..    ..    New Mills.

E. A. Sadler, M.D.    ..    ..    Ashbourne Urban

N. A. K. Sparrow, L.R.C.P.    ..    Clay Cross.

W. H. Turton, M.B.    ..    ..    Heanor.

\* On military duty.

† Temporary appointment.

## HEALTH VISITING STAFF.

N. Willatt, Superintendent.

E. Gray, Office Superintendent and Relief Health Visitor.

F. Brabyn, Ophthalmic Nurse.

†C. Adams.

S. E. Brennan.

K. Brocklehurst.

E. Bousfield.

S. E. Brown.

G. Dunphy.

L. A. Ewens.

A. A. Fletcher.

C. H. Fisher.

D. Fisher.

E. G. Greenall.

G. E. Gomm.

\*R. Hankinson.

A. Harvey.

M. M. Hill.

C. Howes.

E. Howes.

D. C. Hughes.

E. M. Jeffreys.

\*B. A. Latham.

S. K. Latham.

G. Lewin.

A. L. Liddle.

R. Moulton.

E. E. Nadin.

B. Nicholas.

C. A. Orpin.

M. R. Parsons.

\*N. Pritchard.

M. Rodgers.

J. Rose.

M. C. Ryan.

E. Sandham.

E. L. Simms.

\*R. Spetch.

M. Wilson.

H. Wrennall.

\* On military service.

† Also acts as School Attendance Officer.

### PART-TIME SCHOOL NURSES.

In the following schools the work is done by District Nurses :—

Dore & Totley, Chisworth & Charlesworth, Buxton, Heanor, Cotmanhay  
and Shipley, Ashbourne Urban, Bakewell Urban, Bonsall, Darley  
Abbey, North Wingfield, and Pilsley Parkhouse.



# ANNUAL REPORT

OF THE

## SCHOOL MEDICAL OFFICER.



*To the Chairman and Members of the  
Education Committee of the Derbyshire County Council.*

LADIES AND GENTLEMEN,

I have the honour to submit my Ninth Annual Report. It contains in tabular form the results of the inspections made during the year. I have not commented at any length upon the results of these inspections, but they clearly show the necessity for three things—the services of an Ear and Throat Specialist, the necessity for Dental Clinics, and for an Open-air School. After the war, I hope your Committee will, in conjunction with the Tuberculosis Committee, provide an Open-air School on the piece of land adjoining the County Sanatorium, so that the school children can be under the medical supervision of the County Tuberculosis Officer.

Again, after the war the schools should be kept much cleaner than they are at present. I am sure that the dirty condition of the schools—and they must be dirty if they are only washed once a quarter—and the verminous condition of 10% of the school children is a factor in preventing a large number of women of the right character and education teaching in the elementary schools.

The Senior Assistant County Medical Officer (Capt. Carruthers) has been serving in France for the last 18 months as a Divisional Sanitary Officer. Captain Carruthers has been mentioned in General Haig's despatches as having rendered exceptional services in maintaining the health of the troops.

Your Ophthalmic Surgeon (Captain Carr) who joined up two days after the war was declared, was not so fortunate, serving in India and Ireland and only recently having gone to the front.

I am,

Your obedient Servant,

SIDNEY BARWISE.

County Offices, Derby,  
March, 1917.

## SECTION I.

### INTRODUCTION.

The number of elementary schools in the County is 387, and they have 560 departments, 169 are Council and 218 voluntary. The average number of children on the register for 1916 was 82,050, as compared with 90,000 when we started the work of Medical Inspection. I pointed out in my Annual Report for last year that the children surviving at the age of 5 was 1,000 less than it was ten years ago, owing to the births falling more rapidly than the total deaths under 5 years. This is serious in view of the necessity for increased man-power of the nation, and makes the work of ameliorating the condition of the school children of paramount importance.

### STAFF.

**MEDICAL.**—I am glad to be in a position to report that we have been successful in carrying out the whole of the work required by the Board of Education. This has been done by arranging with one of the part-time Medical Officers, Dr. Logan, to do the work in the Swadlincote district, in addition to his own area of Harts-horne and Seals, and by appointing the Medical Officer of Clay Cross to do the work in his area.

The ophthalmic work has been well done by Dr. Gunning, a temporary officer, who has taken Dr. Carr's place.

The work previously done by Dr. Carruthers and Dr. DuPre was, in the early part of the year, done by Dr. Mary David and Dr. Adeline Campbell, and in the latter part of the year by Dr. Bedwell and Dr. Hennessy; while the work which was previously done by the late Dr. Thomson has been kept going until recently by Dr. J. Ward.

The X-ray work, which was previously done by Dr. Carruthers at the Chesterfield Clinic, was carried out with my assistance first by Dr. David and latterly by Dr. Bedwell; and that in the Derby Clinic was carried out by Dr. Ward and latterly by myself. We have suffered loss at the Chesterfield X-ray Clinic by Miss B. A. Latham going on military duty.

The ear and throat work has suffered most. At the time of writing this report, we have no one to do the work at Chesterfield, but we have recently made arrangements with a member of the temporary staff of the Children's Hospital, Derby, to perform the operations for tonsils and adenoids at our Derby Clinic.

**SCHOOL NURSES.**—In Derbyshire the school nursing work is carried out by the general health visiting staff, who do the work under the Notification of Births Act, inspect the midwives, visit the cases of tuberculosis, and keep an eye on the mental defectives.

The total salaries paid the health visitors is £4,700, but the Education Committee receive from other committees £3,280, leaving £1,420 as the cost of the whole-time School Nursing Service. In addition, £85 is paid to District Nursing Associations where they still do the work, and £27 for carrying out the work of following-up in certain areas. When I put the scheme before the Committee in 1907 I said the School Nursing Service would cost £1,200, but this did not include anything for carrying out treatment.

## THE EXTENT OF MEDICAL INSPECTION.

During the year 30,117 inspections were made as compared with 29,206 in 1915. The increase is due to certain entrants being examined during 1916 who we were unable to inspect in the previous year. The number of entrants examined was 10,297, as against 8,724 in the previous year. There were 747 re-examinations as compared with 419 in 1915. Table I. gives the details as to ages and sex of the children examined in the several groups, while the table on page 10 gives the numbers of children examined in each Sanitary District. On page 11 tables are given showing the number of schools closed and the reason on account of which they were closed. It will be seen that the schools closed on account of infectious disease is much less than formerly. On the same page the proportion of children protected against infectious disease by having had a previous attack are given and a list of the children who were permanently excluded during the year and the reason for their exclusion.

On the top of page 12 there is a table showing the number of children excluded temporarily on medical grounds, and the cause of such exclusion. There is an increase in the children excluded on account of tuberculosis, the result of the activities of the Tuberculosis Officers and the fact that the Tuberculosis Committee have started a Children's Tuberculosis Clinic at Chesterfield. The number of children excluded on account of contagious skin diseases has gone up. It has been necessary to exclude 143, as compared with 83 in the previous year. On referring to Table II. (11) it will be seen that the school doctors found in school 79 cases of scabies, while in 1915 the number found was only 40. This increase is no doubt due to homes being infected by soldiers returning from the front. 288 children were excluded on account of verminous conditions, but during the year none were cleansed at workhouses, 15 were cleansed at home, and 19 at school. Unfortunately, we have no baths at any of our elementary schools in Derbyshire, and I do not think we shall ever get the children all clean until baths are part of the school installation. The school nurses made 186,884 examinations of the children's heads and 11·2 were found to have a few nits as compared with 12·4 in the previous year, while 2·8 had many nits as compared with 2·7 in 1915.

On page 12 is also given a list of the minor ailments which were treated by the school nurses under the direction of the school medical officers. The same table gives the heights and weights of the Derbyshire children as compared with the children of England and Wales.

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TABLE I.—NUMBER, AGE AND SEX OF THE CHILDREN INSPECTED IN 1916.

Age.	ENTRANTS.						INTERMEDIATE.						LEAVERS.						Re-examina- tions.	
	3	4	5	6	7	Other Ages.	Total.	7	8	9	Other Ages.	Total.	11	12	13	14	Other Ages.	Total.		Specials.
Boys ..	13	347	3861	932	101	9	5263	92	4241	136	23	4492	99	3582	223	2	30	3936	976	360
Girls ..	9	309	3723	903	88	2	5034	92	4337	87	23	4539	19	3599	236	3	10	3867	1263	387
Total ..	22	656	7584	1835	189	11	10297	184	8578	223	46	9031	118	7181	459	5	40	7803	2239	747

	Entrants.	Intermediate.	Leavers.	Specials.	Re-examinat'ns.	Grand Total.
Boys ..	5263	4492	3936	976	360	15027
Girls ..	5034	4539	3867	1263	387	15090
Total ..	10297	9031	7803	2239	747	30117

## NUMBER OF CHILDREN EXAMINED.

District.	Name of Doctor.	No. of Routine Children Inspected.	No. of "Special" Children Inspected.	No. of Children Re-exam'd.
URBAN DISTRICTS.				
Alfreton .. .. {	Dr David .. .. }	605	167	—
Alvaston and Boulton .. ..	„ Hennesey .. ..	87	2	—
Ashbourne .. ..	„ Ward .. ..	198	5	—
Bakewell .. ..	„ Sadler .. ..	163	2	—
Baslow .. ..	„ Evans .. ..	39	—	7
Belper .. ..	„ Fentem .. ..	712	10	—
Bolsover .. .. {	„ Ward .. .. }	1018	96	—
Bonsall .. ..	„ David .. ..	55	9	—
Brampton and Walton .. ..	„ Bedwell .. ..	78	4	—
Buxton .. ..	„ Harvey .. ..	308	—	—
Clay Cross .. .. {	„ McCrea .. .. }	488	90	—
Dronfield .. ..	„ Flint .. ..	231	—	—
Fairfield .. ..	„ Hennesey .. ..	200	5	61
Heage .. ..	„ Sparrow .. ..	191	7	—
Heanor .. ..	„ Hudson .. ..	1191	—	—
Long Eaton .. ..	„ Hannah .. ..	1354	69	2
Matlock .. ..	„ Ward .. ..	328	14	22
Matlock Bath .. ..	„ Turton .. ..	49	5	7
New Mills .. ..	„ Milligan .. ..	513	12	155
North Darley .. ..	„ Fentem .. ..	128	10	18
Ripley .. ..	„ Fentem .. ..	345	9	—
South Darley .. ..	„ Ward .. ..	51	—	—
Swadlincote .. ..	„ Fentem .. ..	1363	89	—
Whittington and Newbold {	„ Logan .. .. }	1171	314	—
Wirksworth .. ..	„ David .. .. }	156	6	—
URBAN DISTRICTS ..	Total ..	11022	925	272
RURAL DISTRICTS.				
Ashbourne .. .. {	Dr. Hoole .. .. }	513	37	—
Bakewell .. ..	„ Hollick .. ..	1079	100	159
Basford .. ..	„ Fentem .. ..	54	—	—
Belper .. ..	„ Ward .. ..	1058	48	1
Blackwell .. ..	„ Ward .. ..	2590	166	—
Chapel-en-le-Frith .. ..	„ Littlewood .. ..	861	48	183
Chesterfield .. .. {	„ Hannah .. .. }	5432	478	—
Clowne .. ..	„ Gunning .. .. }	1388	231	—
*Glossop .. ..	„ Campbell .. .. }	95	—	—
Hartshorne and Seals .. ..	„ Bedwell .. .. }	19	—	—
Hayfield .. ..	„ David .. .. }	430	24	2
Norton .. ..	„ Hennesey .. .. }	128	37	14
Repton .. ..	„ McKenzie .. .. }	116	6	—
Shardlow .. ..	„ Logan .. .. }	842	40	66
Sudbury .. ..	„ Minchin .. .. }	1400	83	51
	„ Hunt .. .. }	123	16	—
RURAL DISTRICTS ..		16109	1314	476
WHOLE COUNTY .. ..		27131	2239	747

\* These returns were received too late to be included with the other figures.

### SCHOOL CLOSURE.

The table below gives the schools closed on account of infectious disease :—

	No. of Schools or De- part- ments closed.	No. Closed by School Med. Officer.	No. Closed by Sanitary Author- ity.	No. Closed for Measles.	No. Closed for Scarlet Fever.	No. Closed for Diph- theria.	No. Closed for Whoop- ing Cough.	No. Closed for Chicken Pox.	No. Closed for Mumps.	Other Causes.
1913	77	23	54	48	13	5	5	1	5	—
1914	69	37	32	29	11	4	18	4	2	—
1915	34	23	11	21	6	1	1	1	2	1
1916	29	22	7	13	2	5	4	1	3	1

### CHILDREN PROTECTED AGAINST INFECTIOUS DISEASE.

District.	Number Exam- ined.	Measles.	Whoop- ing Cough.	Chicken Pox.	Scarlet Fever.	Diphth- eria.
<b>Urban Districts.</b>						
Entrants ..	4,266	55·56	29·45	13·93	5·27	·96
Intermediates ..	3,660	79·92	36·06	18·82	6·42	1·53
Leavers ..	3,096	68·03	28·55	15·35	10·08	2·68
<b>Rural Districts.</b>						
Entrants ..	6,031	62·85	21·78	14·61	6·35	1·16
Intermediates ..	5,371	63·84	34·65	18·69	8·11	1·62
Leavers ..	4,707	66·30	32·89	18·44	11·54	2·08
<b>Whole County.</b>						
Entrants ..	10,297	59·82	28·12	14·33	5·90	1·07
Intermediates ..	9,031	70·34	35·22	18·75	7·43	1·58
Leavers ..	7,803	67·00	31·15	17·20	10·95	2·31

### CHILDREN PERMANENTLY EXCLUDED, 1916.

	Age.	
Tuberculosis ... ..	7	6-14
Tuberculosis (Eyes) ... ..	1	—
Mental Conditions ... ..	1	5
Epilepsy and Mental Condition ... ..	1	—
Epilepsy ... ..	1	6
Anæmia and Debility ... ..	1	13
General Debility ... ..	1	14
Heart Disease ... ..	5	9-13
Chorea and Defective Vision ... ..	1	12
Chorea ... ..	1	12
Eye Conditions ... ..	2	13
Bronchitis ... ..	1	5
Curvature of Spine ... ..	1	13
Fits ... ..	1	7
Œdema and Deafness ... ..	1	13
Chronic Purulent Nasal Discharge ... ..	1	12

### CHILDREN TEMPORARILY EXCLUDED ON MEDICAL GROUNDS.

Tuberculosis .. .. .	230	Eye Conditions .. .. .	45
Debility .. .. .	17	Infectious Diseases .. .. .	63
Anæmia .. .. .	10	Contagious Skin Diseases .. .. .	143
Chorea .. .. .	10	Other Skin Diseases .. .. .	4
Heart Disease .. .. .	6	Other Conditions .. .. .	25
Bronchitis .. .. .	13		
Ear and Throat Conditions .. .. .	8	Total .. .. .	574

### CHILDREN TEMPORARILY EXCLUDED ON ACCOUNT OF VERMINOUS CONDITIONS, 1916.

Received final "D" Notices .. .. .	220
„ 24 hours' notice .. .. .	34
Cleansed at home .. .. .	15
„ „ school .. .. .	19
„ „ workhouse .. .. .	nil
Total .. .. .	288

### EXAMINATIONS OF HEADS.

186,884 examinations of heads. Of these  
20,940 had few nits.  
5,390 had many nits.

### CASES TREATED BY SCHOOL MEDICAL INSPECTORS.

Impetigo .. .. .	324	Sores .. .. .	2
Ringworm .. .. .	179	Dirty Scalp .. .. .	1
Scabies .. .. .	101	Ulcer .. .. .	1
Blepharitis .. .. .	28		
Eczema .. .. .	23		664
Abrasion .. .. .	5		

### HEIGHT AND WEIGHT.

DERBYSHIRE, AND ENGLAND AND WALES in heavy type.

BOYS.				GIRLS.			
No.	Age.	Height. ins.	Weight. lbs.	No.	Age.	Height. ins.	Weight. lbs.
347	4	39·49 <b>38·63</b>	36·93 <b>35·77</b>	309	4	39·33 <b>38·39</b>	35·38 <b>34·98</b>
3861	5	41·66 <b>40·68</b>	39·14 <b>38·68</b>	3723	5	41·08 <b>40·44</b>	38·59 <b>37·74</b>
932	6	44·34 <b>42·83</b>	42·34 <b>42·24</b>	903	6	42·87 <b>42·53</b>	40·90 <b>41·24</b>
4241	8	47·88 <b>47·39</b>	52·19 <b>52·0</b>	4337	8	47·07 <b>46·94</b>	50·33 <b>49·55</b>
99	11	54·99 <b>52·98</b>	70·00 <b>66·41</b>	19	11	54·21 <b>53·01</b>	69·47 <b>65·52</b>
3582	12	55·37 <b>54·88</b>	72·24 <b>72·66</b>	3599	12	55·75 <b>54·48</b>	72·61 <b>73·86</b>
223	13	56·03 <b>56·07</b>	78·67 <b>77·40</b>	236	13	55·05 <b>56·81</b>	76·09 <b>80·37</b>

## SECTION II.

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In Table II. the result of the examination of the school children are given in tabulated form in the schedule issued by the Board of Education. There was an improvement in the cleanliness of the children's heads, but a falling off in the state of their bodies. The proportion of children badly nourished was 2% less than in the previous year.

The only matter to which I need specially refer is the work done by Dr. Gunning for the remedy of the defects of eyesight tabulated in Table II. (6) page 17.

### EYE WORK.

During the past year the ophthalmic work has been done in a most satisfactory way. The Chinley Clinic being now in full working order enables all treatment cases to come up from the north-western part of the County, so that now we have the three main Clinics attended regularly by the County Oculist, viz.:—Derby every Friday, Chesterfield every Tuesday, and Chinley every alternate Monday. The minor Clinics are visited on the other days of the week. All treatment cases, such as corneal ulcers, blepharitis, dacryocystitis, interstitial keratitis, are kept under constant observation.

The following is a list of the Clinics visited during the year, together with the number of cases seen at each one.

#### Cases Examined at Eye Clinics, 1916.

			New Cases.		Re-examinations.
Alfreton	...	...	58	...	14
Ashbourne	...	...	17	...	—
Bakewell	...	...	41	...	5
Beighton	...	...	28	...	24
Belper	...	...	53	...	11
Buxton	...	...	23	...	35
Chesterfield	...	...	413	...	358
Chinley	...	...	178	...	174
Clay Cross	...	...	110	...	44
Derby	...	...	224	...	232
Eckington	...	...	103	...	28
Long Eaton	...	...	100	...	27
Matlock	...	...	36	...	8
Ripley	...	...	63	...	26
Wirksworth	...	...	22	...	15
Total	...	...	1469	...	1001

It will be observed by reference to last year's Report that the number of new cases seen this year is an increase of 526. There was also an increase of 198 in the re-examinations.

All the cases are still followed up by the school nurses in a most exemplary way, the children's cards being filled up with great regularity. By these means any faults, such as a spectacle-frame not fitting properly, or a child not wearing the glasses regularly, are brought at once to the notice of the Oculist. Should the glasses ordered be satisfactory, a note to that effect is placed on the child's card. During the year 568 reports have been sent in.

In fact, the arrangements made for the examination of the children's eyes throughout the whole County is almost as complete as it possibly can be.

The following table gives a list of the various abnormalities dealt with during the year:—

#### Eye Defects Treated 1916.

Hypermetropic Astigmatism	651	Disease of Cornea...	...	50
Hypermetropia	...	,, Lids	...	52
Myopic Astigmatism	...	Nystagmus	...	12
Myopia	...	Lachrymal Duct	...	4
Convergent Strabismus	...	Retinitis & Choroiditis	...	4
Divergent Strabismus	...	Disease of Lens	...	14
Mixed Astigmatism	...	Microphthalmos	...	1
Amblyopia (congenital)	...	Ptosis	...	2
Emmetropic	...	Iritis	...	1
Conjunctivitis	...	Buphthalmos & Proptosis	...	1
		Unclassified	...	11

#### Spectacles, 1916.

Number of spectacles supplied	...	...	...	...	984
,,	,,	,,	with two new leuses	...	20
,,	,,	,,	with one new lens	...	24
Repairs to spectacles	...	...	...	...	28

#### Reports, &c.

Reports received from nurses	...	...	...	...	568
Cases requiring continuous treatment	...	...	...	...	146

On page 22 is given the percentage of children unvaccinated in the several districts of the County. The percentage of children who are reported as unvaccinated is 45·6 in the Urban Districts and 49·9 in the Rural. In Belper it is as high as 74. The proportion of children unvaccinated has gradually gone up in six years from 30% to 45%. The table may be taken as indicating the proportion of children who will die from smallpox in the several districts in the event of an outbreak of smallpox, provided the parents don't fall in with the Leicester system—that is, have their children vaccinated immediately the district is invaded with smallpox.



TABLE II.—*continued.*  
Return shewing the Physical Condition of Children Inspected.

CONDITION.	ENTRANTS.			INTERMEDIATE.			LEAVERS.			TOTAL.			SPECIAL CASES.	
	Boys.		Per cent.	Boys.		Per cent.	Boys.		Per cent.	Boys.		Per cent.	Boys.	Girls.
	Girls.	Total		Girls.	Total		Girls.	Total		Girls.	Total		Girls.	Total
Total Inspected ..	5263	5034	10297	4492	4539	9031	3936	3867	7803	13691	13440	27131	976	2239
<b>3.—Nutrition—</b>														
Good ..	4928	4729	9657	4163	4204	8367	3744	3630	7374	12835	12563	25398	958	2191
Below Normal ..	297	278	575	292	299	591	183	213	401	772	795	1567	14	34
Bad ..	38	27	65	37	36	73	9	19	28	84	82	166	4	14
Total Sub-Normal ..	335	305	640	329	335	664	192	237	429	856	877	1733	18	48
<b>4. Tonsils and Adenoids—</b>														
No Defect ..	4189	3998	8187	3557	3583	7140	3180	3062	6242	10926	10643	21569	808	1864
Tonsils—slight ..	664	693	1357	601	631	1232	540	550	1090	1805	1874	3679	29	82
Tonsils—much enlarged ..	231	212	443	195	204	399	145	170	315	571	586	1157	53	130
Adenoids, slight ..	118	83	201	105	81	186	42	49	91	265	213	478	36	70
Adenoids, marked ..	61	48	109	34	40	74	29	36	65	124	124	248	50	93
Total Disease ..	1074	1036	2110	935	956	1891	756	805	1561	2765	2797	5562	168	375
Mouth Breathers ..	127	100	227	109	96	205	55	58	113	291	254	545	35	68
<b>5. Ear Disease—</b>														
No Disease ..	5160	4960	10120	4409	4436	8845	3879	3790	7669	13448	13189	26637	904	2069
Obstruction (wax) ..	1	3	4	4	4	8	..	3	3	5	10	15	..	3
Otorrhoea ..	58	29	87	23	31	54	13	23	36	94	83	177	39	78
Deafness ..	44	39	83	56	68	124	44	51	95	144	158	302	33	88
Other Diseases ..	..	3	3	..	..	..	..	..	..	..	..	..	..	1



TABLE II.—*continued.*  
Return shewing the Physical Condition of Children Inspected.

CONDITION.	ENTRANTS.			INTERMEDIATE.			LEAVERS.			TOTAL.			SPECIAL CASES.		
	Boys.	Girls.	Total	Per cent.	Boys.	Girls.	Total	Per cent.	Boys.	Girls.	Total.	per cent.	Boys.	Girls.	Total.
Total Inspected ..	5263	5034	10297		4492	4539	9031		3936	3867	7803		13691	13440	27131
													976	1263	2239
<b>7. Teeth—</b>															
Sound ..	1789	1673	3462	33·62	1130	1219	2349	26·01	1339	1437	2776	35·58	4258	4329	8587
Less than four decayed ..	1449	1415	2864	27·61	1466	1469	2935	32·50	1739	1657	3396	43·52	4654	4541	9195
Four or more decayed ..	2025	1946	3971	38·56	1896	1851	3747	41·50	858	773	1631	20·90	4779	4570	9349
Sepsis ..	344	254	598	5·80	391	252	643	7·12	232	178	410	5·25	967	684	1651
<b>8. Heart and Circulation—</b>															
No Disease ..	5179	5000	10179	98·85	4425	4479	8904	98·60	3878	3797	7675	98·35	13482	13276	26758
Organic Disease ..	44	15	59	·57	41	32	73	·80	32	29	61	·78	117	76	193
Functional Disease ..	39	19	58	·56	26	27	53	·58	26	36	62	·79	91	82	173
Anæmia ..	..	..	..	..	..	..	..	..	..	2	2	·05	..	2	2
Other Defects. Heart enlarged ..	1	..	1	·00	..	1	1	·01	..	3	3	·03	1	4	5
Total Disease ..	84	34	118	1·14	67	60	127	1·40	58	70	128	1·64	209	164	373
													10	22	32

TABLE II.—*continued.*  
Return shewing the Physical Condition of Children Inspected.

CONDITION.	ENTRANTS.			INTERMEDIATE.			LEAVERS.			TOTAL.			SPECIAL CASES.					
	Boys.	Girls.	Total	Per cent.	Boys	Girls.	Total	Per cent.	Boys.	Girls.	Total.	Per cent.	Boys.	Girls.	Tot l.			
Total Inspected ..	5263	5084	10297		4492	4539	9031		3936	3867	7803		13691	13440	27131	976	1263	2239
9. Lungs—																		
No Disease ..	5181	4972	10153	98·60	4451	4506	8957	99·17	3909	3840	7749	99·30	13541	13318	26859	935	1221	2156
Chronic Bronchitis and Bronchial Catarrh ..	59	47	106	1·03	22	16	38	·42	14	8	22	·28	95	71	166	8	13	21
Tuberculosis ..	10	10	20	·19	9	11	20	·22	9	10	19	·24	28	31	59	19	16	35
Tuberculosis Suspected	10	5	15	·14	8	6	14	·15	4	9	13	·16	22	20	42	11	13	24
Other Diseases ..	3	..	3	·02	2	..	2	·02	..	..	..	..	5	..	5	3	..	3
Total Disease ..	82	62	144	1·40	41	33	74	·82	27	27	54	·69	150	122	272	41	42	83
10. Nervous System—																		
No Disease ..	5248	5024	10272	99·75	4484	4529	9013	99·80	3932	3800	7792	99·86	13664	13413	27077	960	1242	2202
Epilepsy ..	6	2	8	·07	5	3	8	·09	..	3	3	·04	11	8	19	4	4	8
Chorea ..	4	2	6	·06	2	6	8	·09	..	3	3	·04	6	11	17	10	14	24
Other Disease ..	5	6	11	·10	1	1	2	·02	4	1	5	·06	10	8	18	2	3	5
Total Disease ..	15	10	25	·24	8	10	18	·19	4	7	11	·14	27	27	54	16	21	37
11. Skin—																		
No Skin Disease ..	5119	4924	10043	97·53	4420	4462	8882	98·34	3892	3816	7708	98·78	13431	13202	26633	904	1188	2092
Ringworm—Head ..	45	26	71	·69	17	10	27	·23	4	1	5	·06	66	37	103	15	7	22
Ringworm—Body ..	2	2	4	·04	1	..	1	·01	..	..	..	..	3	2	5	1	1	2
Scabies ..	16	13	29	·28	16	17	33	·36	10	7	17	·21	42	37	79	15	23	38
Impetigo ..	28	30	58	·56	19	13	32	·34	9	10	19	·24	55	53	109	20	17	37
Eczema ..	39	18	57	·55	4	14	18	·20	8	8	16	·20	51	49	91	7	11	18
Psoriasis ..	1	1	2	·02	1	1	2	·02	1	1	2	·02	3	3	6	4	1	5
Alopecia ..	..	1	1	·01	1	2	3	·03	2	2	4	·05	3	5	8	1	2	3
Ichthyosis ..	..	1	1	·01	1	..	1	·01	1	..	1	·01	2	1	3	..	..	..
Others ..	13	18	31	·30	12	20	32	·34	9	22	31	·39	34	60	94	9	13	22
Total Disease ..	144	110	254	2·47	72	77	149	1·65	44	51	95	1·22	260	238	498	72	75	147

TABLE II.—*continued.*

Return shewing the Physical Condition of Children Inspected.

CONDITION.	ENTRANTS.			INTERMEDIATE.			LEAVERS.			TOTAL.			SPECIAL CASES.		
	Boys	Girls	Total	Per cent	Boys	Girls	Total	Per cent.	Boys	Girls	Total.	Per cent.	Boys.	Girls.	Total.
Total Inspected ..	5263	5034	10297		4492	4539	9031		3936	3867	7803		13891	13440	27131
<b>12. Rickets—</b>															
No Disease ..	5224	5019	10243	99.47	4443	4526	8969	99.31	3921	3859	7780	99.70	13588	13404	26992
Slight ..	32	14	46	.45	39	10	49	.54	14	7	21	.26	85	31	116
Marked ..	7	1	8	.67	10	3	13	.14	1	1	2	.02	13	5	23
Total ..	39	15	54	.52	49	13	62	.68	15	8	23	.29	103	36	139
<b>13. Deformities—</b>															
No Deformity ..	5222	5005	10227	99.32	4478	4502	8980	99.43	3911	3843	7754	99.37	13611	13350	26961
Deformity present—															
Infantile Paralysis ..	12	10	22	.21	4	6	10	.11	4	3	7	.08	20	19	39
Spinal Curvature ..	4	..	4	.03	1	8	9	.09	4	12	16	.20	9	20	29
Hare Lip and Cleft															
Palate ..	3	4	7	.06	3	..	3	.03	2	1	3	.03	8	5	13
Talipes ..	5	2	7	.06	..	5	5	.05	1	1	2	.02	6	8	14
Wry Neck ..	1	1	2	.01	..	2	2	.02	2	..	2	.02	3	3	6
Bow Legs ..	3	..	3	.02	..	2	2	.02	1	..	1	.01	4	2	6
Knock Knee ..	..	1	1	.00	..	..	..	..	..	1	1	.01	..	2	2
Congenital Deformities	1	..	1	.00	..	..	..	..	1	..	1	.01	2	..	2
Deformities following															
Accident ..	..	1	1	.00	..	..	..	..	..	..	..	..	..	1	1
Rachitic Chest ..	7	4	11	.10	4	4	8	.08	2	1	3	.03	13	9	22
Flat Foot ..	..	..	..	..	..	..	..	.00	..	2	2	.02	..	2	2
Other Deformities ..	5	6	11	.10	2	10	12	.13	8	3	11	.14	15	19	34
Total Disease ..	41	29	70	.67	14	37	51	.56	25	24	49	.62	80	90	170
													18	12	30

TABLE II.—*continued.*

Return shewing the Physical Condition of Children Inspected.

CONDITION.	ENTRANTS.			INTERMEDIATE.			LEAVERS.			TOTAL.			SPECIAL CASES.		
	Boys.	Girls.	Total	Per cent.	Boys.	Girls.	Total	Per cent.	Boys.	Girls.	Total.	Per cent.	Boys.	Girls.	Total.
Total Inspected ..	5263	5034	10297		4492	4539	9031		3936	3867	7803		13691	13440	27131
<b>14. Tuberculosis Non-Pulmonary—</b>															
No Disease ..	5251	5028	10279	99.82	4487	4530	9017	99.84	3928	3856	7784	99.75	13666	13414	27080
Glandular ..	3	3	6	.05	3	5	8	.08	3	8	11	.14	9	16	25
Bones and Joints ..	6	2	8	.07	1	2	3	.03	4	2	6	.07	11	6	17
Bowels ..	2	1	3	.02	..	1	1	.01	..	..	..	..	2	2	4
Skin ..	1	..	1	.00	1	1	2	.02	1	..	1	.01	3	1	4
Peritonitis ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Eyes ..	..	..	..	..	..	..	..	..	..	1	1	.01	..	..	1
															..
Total Disease ..	12	6	18	.17	5	9	14	.15	8	11	19	.24	25	26	51
<b>15. Speech—</b>															
Not Defective ..	5214	4995	10209	99.14	4454	4514	8968	99.30	3912	3855	7767	99.53	13580	13364	26944
Defective Articulation ..	44	35	79	.76	35	25	60	.66	21	11	32	.41	100	71	171
Stammering ..	5	4	9	.08	2	..	3	.03	3	1	4	.05	11	5	16
Deaf and Dumb ..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
Total Disease ..	49	39	88	.85	38	25	63	.69	24	12	36	.46	111	76	187
<b>16. Mental Conditions—</b>															
Normal ..	5207	4983	10190	98.96	4301	4421	8722	96.60	3789	3757	7546	96.70	13297	13161	26458
Dull or Backward ..	51	47	98	.95	188	112	300	3.32	141	104	245	3.14	380	263	643
Mentally Defective ..	5	4	9	.08	3	6	9	.09	6	6	12	.15	14	16	30
Total Defect ..	56	51	107	1.03	191	118	309	3.42	147	110	257	3.29	394	279	673
															46

## VACCINATION.

District.	Number Examined.	Number Vaccinated.	Unvaccinated.	
			Number.	Percentage.
URBAN DISTRICTS.				
Alfreton .. ..	605	342	263	43·47
Alvaston and Boulton ..	87	23	64	73·56
Ashbourne .. ..	198	166	32	16·16
Bakewell .. ..	163	127	36	22·08
Baslow .. ..	39	35	4	10·25
Belper .. ..	712	185	527	74·00
Bolsover .. ..	1,018	503	515	50·59
Bonsall .. ..	55	29	26	47·27
Brampton and Walton ..	78	41	37	47·43
Buxton .. ..	308	248	60	19·48
Clay Cross .. ..	488	281	207	42·41
Dronfield .. ..	231	162	69	29·87
Fairfield .. ..	200	154	46	23·00
Heage .. ..	191	83	108	56·54
Heanor .. ..	1,191	770	421	35·35
Long Eaton .. ..	1,354	474	880	65·00
Matlock .. ..	328	191	137	41·76
Matlock Bath .. ..	49	36	13	26·53
New Mills .. ..	513	384	129	25·15
North Darley .. ..	128	70	58	45·31
Ripley .. ..	345	136	209	60·58
South Darley .. ..	51	32	19	37·25
Swadlincote .. ..	1,363	506	857	62·88
Whittington and Newbold ..	1,171	476	695	59·35
Wirksworth .. ..	156	65	91	58·33
Total .. ..	11,022	5,519	5,503	49·93
RURAL DISTRICTS.				
Ashbourne .. ..	513	388	125	24·37
Bakewell .. ..	1,079	752	327	30·31
Basford .. ..	54	29	25	46·29
Belper .. ..	1,058	496	562	53·12
Blackwell .. ..	2,590	1,368	1,222	47·18
Chapel-en-le-Frith .. ..	861	636	225	26·13
Chesterfield .. ..	5,432	3,107	2,325	42·80
Clowne .. ..	1,388	719	669	48·20
Glossop .. ..	95	53	42	44·21
Hartshorne and Seals ..	430	190	240	55·81
Hayfield .. ..	128	103	25	19·53
Norton .. ..	116	76	40	34·48
Repton .. ..	842	574	268	31·83
Shardlow .. ..	1,400	631	769	54·93
Sudbury .. ..	123	111	12	9·75
Total .. ..	16,109	9,233	6,876	42·69
THE WHOLE COUNTY ..	27,131	14,752	12,379	45·62

## SECTION III.

## AMELIORATION OF DEFECTS.

The defects found for which treatment was regarded as necessary are given in Table IV. The total defects found was 4,322. This is over 1,000 less than in the previous year. I am afraid that this means the standard of inspection has not been as thorough as in previous years. The absence from the staff of the Ear and Throat Specialist will no doubt be responsible for the falling off of the nose and throat cases from 1,500 to just over 1,000. The first four headings of the table only include such severe cases as it is necessary to call the attention of the managers to with the object of calling in the N.S.P.C.C. Over 20,000 dirty heads dealt with by the school nurses have not been included. The returns in Table IV. are made from the log books, and if the names of all the children with nits in their heads were entered in these books fresh books would be required every month or so, the clerical staff would have to be largely increased, and while we get there, and are sure the heads are cleansed, it is unnecessary to keep records of the names of all children dealt with.

## CASES REFERRED TO MANAGERS.

During the year 263 letters were sent to the School Managers relating to 707 children for whom nothing was being done after three months; 109 answers were received relating to 289 children.

The result of the correspondence was that in 61 cases the matters to which attention was called were remedied, in 9 they were improved, in 30 medical advice was obtained, in 3 hospital tickets were obtained, in 66 the pressure that the Managers put on the parents resulted in their promising to obtain advice, in 17 cases the parents were too poor to obtain the necessary treatment; 33 children left school before anything was done, in 27 cases the parents refused to obtain advice, and in 43 cases nothing was done at all.

There were 10,080 parents present at Medical Inspection in 1916.

## NOTICES SENT TO PARENTS.

(Excluding Verminous Conditions).

Diseases.	Routine Cases.	Special Cases.	Re-examination.	Totals.
Defective Vision .. ..	1,656	504	27	2,187
Naso-Pharyngeal Diseases ..	1,162	190	43	1,395
Ear Diseases .. ..	155	76	2	233
Simple Skin Diseases .. ..	67	21	..	88
Góitre .. ..	47	1	1	49
Heart Diseases .. ..	132	4	4	140
Lung Diseases (non-tuberculous) ..	27	2	5	34
Tuberculosis .. ..	31	11	..	42
Deformities and Paralyses ..	31	4	..	35
Carious Teeth .. ..	261	9	2	272
Ringworm .. ..	4	1	..	5
Scabies .. ..	16	15	1	32
Malnutrition .. ..	89	11	4	104
Unclassified .. ..	86	25	5	116
	3,764	874	94	4,732

SUMMARY OF RETURNS FROM LOG BOOKS.  
**TABLE IV.—TREATMENT OF DEFECTS OF CHILDREN DURING 1916.**  
 (Excluding Verminous Condition.)

Condition.	No of defects found for which Treatment was considered necessary.			No. of defects for which no report is available.	No. of defects treated.	Results of Treatment.			No. of defects not treated.	Per-centage of defects treated.
	From previous Year.	New.	Total.			Remedied.	Improved.	Unchanged		
Clothing ..	—	3	3	—	3	1	2	—	—	100.0
Footgear ..	—	4	4	—	3	2	1	—	1	75.0
Cleanliness of Head ..	—	2	2	1	1	—	1	—	—	50.0
Body ..	—	3	3	—	3	—	3	—	—	100.0
Nutrition ..	22	115	137	6	87	7	66	14	22	63.5
Nose and Throat ..	109	974	1083	65	461	153	144	164	448	42.5
External Eye Disease ..	14	138	152	10	88	20	56	12	40	57.9
Ear Disease ..	11	114	125	6	77	14	48	15	31	61.6
Teeth ..	44	167	211	10	75	34	23	18	82	35.5
Heart and Circulation ..	12	178	190	8	121	2	85	34	49	63.6
Lungs ..	8	45	53	5	35	9	—	26	15	66.0
Nervous System ..	2	18	20	3	7	—	5	2	8	35.0
Skin ..	15	118	133	8	92	47	40	5	18	69.2
Rickets ..	5	11	16	2	7	—	3	4	2	43.7
Deformities ..	1	13	14	1	8	—	1	7	4	57.1
Tuberculosis non-Pulmonary ..	—	17	17	1	14	—	2	12	2	82.4
Speech ..	—	7	7	1	2	—	1	1	4	28.5
Mental Condition ..	1	8	9	1	2	—	—	2	5	22.2
Vision and Squint ..	182	1684	1866	152	892	571	51	270	640	42.4
Hearing ..	9	90	99	7	49	5	29	15	34	47.8
Miscellaneous ..	30	158	188	9	105	19	61	25	44	55.8
Total ..	465	3867	4332	296	2132	884	622	626	1449	49.2

## NOSE, EAR AND THROAT CLINICS.

Owing to the Ear and Throat Specialist having gone on military service only 24 operations were performed during the year: 11 at Chesterfield and 13 at Derby. The cases at Chesterfield were all for tonsils and adenoids, at Derby 3 were operations for enlarged tonsils, in 3 adenoids were removed, and in 7 tonsils and adenoids were removed. Dr. Gunning, the Ophthalmic Surgeon, had the cases under observation after operations. He has also had under treatment 70 throat cases and 151 cases of discharging ears.

## X-RAY CLINICS.

During the year 77 cases of ringworm were treated at Chesterfield and 76 at Derby, 18 of the latter were Borough cases. In addition to this, 9 cases of lupus were treated with X-rays at Chesterfield, and one child with an unhealthy scar.

We still find that after exposure to X-rays the children require a very great deal of attention on the part of the school nurses. If the exposure to X-rays is insufficient over any part of the scalp which is infected, diseased hairs may not fall out and a cure is consequently not effected. We now always arrange for the school nurses to see that the whole area which is diseased is epilated, if the hairs do not fall out as the result of exposure to X-rays.

## SCHOOLS FOR MOTHERS.

The most gratifying work of the year is in connection with the Schools for Mothers which your Committee have assisted in establishing. The health visitors have worked enthusiastically and untiringly, and the utmost credit is due to them for the amount of bricks they have made with very little straw. In many districts the District Councils have granted the free use of a room, and at some Welcomes the local medical officer of health has acted constantly as honorary medical adviser; while in others, as far as practical, the work done at the Welcomes has been under the supervision of the school medical officers.

These Schools for Mothers, as the name indicates, are established for educational purposes, and valuable work is done by the health visitors on educational lines. The baby is weighed and the mother advised, health talks are given, patterns of model baby garments are supplied, and the mothers encouraged and instructed how to make them, demonstrations are given of the correct methods of washing, dressing, clothing and feeding baby, the best way of preparing foods for infants and young children, and of storing milk and other foods where accommodation is limited. The making of renovated garments and home-made cots, screens, etc., all come within the curriculum of these schools. The increasing and continued attendances of mothers is the best testimonial to the usefulness of the work.

## CHILDREN IN INSTITUTIONS.

During the year very little has been done for defective children. The following table gives particulars:—

		Removals in 1916.		Admissions in 1916.		Total No. in 1916.
Mentally defective	...	—	...	—	...	6
Epileptic	...	—	...	—	...	—
Blind	...	1	...	6	...	17
Deaf and Dumb	...	4	...	6	...	45
Physically defective	...	—	...	—	...	2
		5		12		70

